MM-C330

Micro Component Audio system

CD/MP3-CD/WMA-CD/CD-R/RW Playback

user manual

imagine the possibilities

Thank you for purchasing this Samsung product.
To receive more complete service,
please register your product at
www.samsung.com/register

SAMSUNG

Safety Warnings

ENG

CAUTION
RISK OF ELECTRIC SHOCK.
DO NOT OPEN

TO REDUCE THE RISK OF ELECTRIC SHOCK, DO NOT REMOVE REAR COVER (or BACK). NO USER SERVICEABLE PARTS INSIDE. REFER SERVICING TO QUALIFIED SERVICE PERSONNEL.

CLASS 1 LASER PRODUCT
KLASSE 1 LASER PRODUKT
LUOKAN 1 LASER LAITE
KLASS 1 LASER APPARAT
PRODUCTO LASER CLASE 1

This symbol indicates “dangerous voltage” inside the product that presents a risk of electric shock or personal injury.

This symbol indicates important instructions accompanying the product.

CLASS 1 LASER PRODUCT
This Compact Disc player is classified as a CLASS 1 LASER product.
Use of controls, adjustments or performance of procedures other than those specified herein may result in hazardous radiation exposure.
CAUTION : INVISIBLE LASER RADIATION WHEN OPEN AND INTERLOCKS DEFEATED, AVOID EXPOSURE TO BEAM.

WARNING : To reduce the risk of fire or electric shock, do not expose this appliance to rain or moisture.
CAUTION : TO PREVENT ELECTRIC SHOCK, MATCH WIDE BLADE OF PLUG TO WIDE SLOT, FULLY INSERT.
- This apparatus shall always be connected to a AC outlet with a protective grounding connection.
- To disconnect the apparatus from the mains, the plug must be pulled out from the mains socket, therefore the mains plug shall be readily operable.

CAUTION
- Apparatus shall not be exposed to dripping or splashing and no objects filled with liquids, such as vases, shall be placed on the apparatus.
- The Mains plug is used as a disconnect device and shall stay readily operable at any time.

Wiring the Main Power Supply Plug (UK Only)

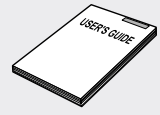
IMPORTANT NOTICE
The main lead on this equipment is supplied with a moulded plug incorporating a fuse. The value of the fuse is indicated on the pin face of the plug and if it requires replacing, a fuse approved to BS1362 of the same rating must be used.
Never use the plug with the fuse cover removed. If the cover is detachable and a replacement is required, it must be of the same colour as the fuse fitted in the plug. Replacement covers are available from your dealer.
If the fitted plug is not suitable for the power points in your house or the cable is not long enough to reach a power point, you should obtain a suitable safety approved extension lead or consult your dealer for assistance.
However, if there is no alternative to cutting off the plug, remove the fuse and then safely dispose of the plug. Do not connect the plug to a main socket as there is a risk of shock hazard from the bared flexible cord.

Never attempt to insert bare wires directly into a main socket. A plug and fuse must be used at all times.

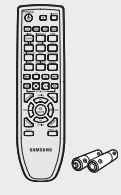
IMPORTANT
The wires in the main lead are coloured in accordance with the following code:– BLUE = NEUTRAL BROWN = LIVE
As these colours may not correspond to the coloured markings identifying the terminals in your plug, proceed as follows:–
The wire coloured BLUE must be connected to the terminal marked with the letter N or coloured BLUE or BLACK.
The wire coloured BROWN must be connected to the terminal marked with the letter L or coloured BROWN or RED.
WARNING : DO NOT CONNECT EITHER WIRE TO THE EARTH TERMINAL WHICH IS MARKED WITH THE LETTER E OR BY THE EARTH SYMBOL ⏚, OR COLOURED GREEN OR GREEN AND YELLOW.

WHAT'S INCLUDED (Check for the supplied accessories below.)

FM Antenna



User's Manual



Remote Control/Batteries(AAA size)

➢ • The accessories may look slightly different than those pictured above.

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Thank you for buying this SAMSUNG micro-compact system.

Please take time to read these instructions. They will allow you to operate your system with ease and take full advantage of its features.

ENG

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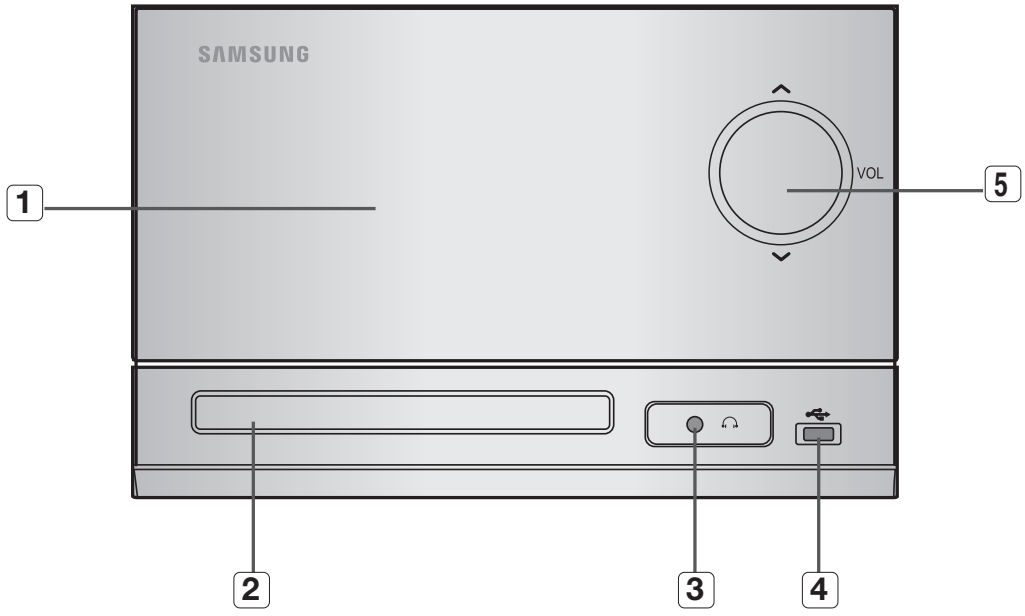
Symbols

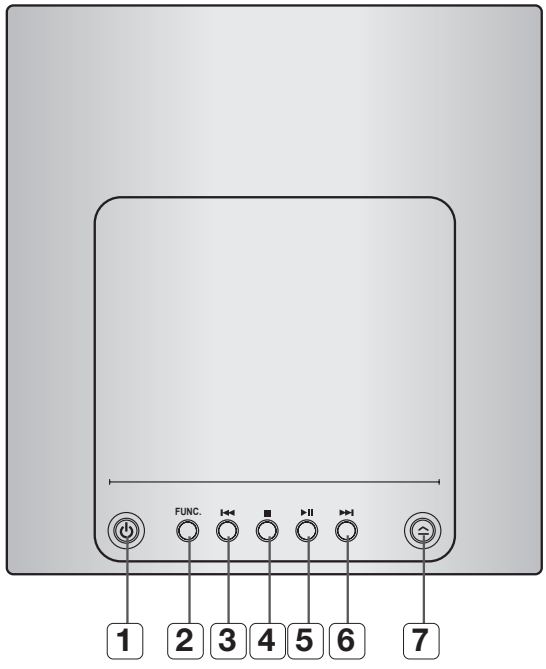
Press **Push** **Important** **Note**

Front Panel View



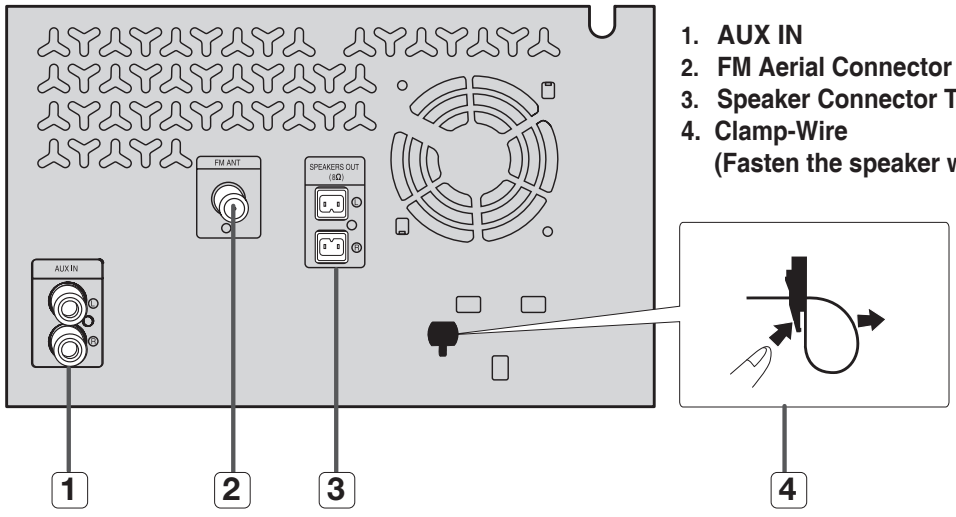
1. WINDOW DISPLAY
2. COMPACT DISC COMPARTMENT
3. HEADPHONE JACK
4. USB JACK
5. VOLUME CONTROL BUTTON

Top Panel View



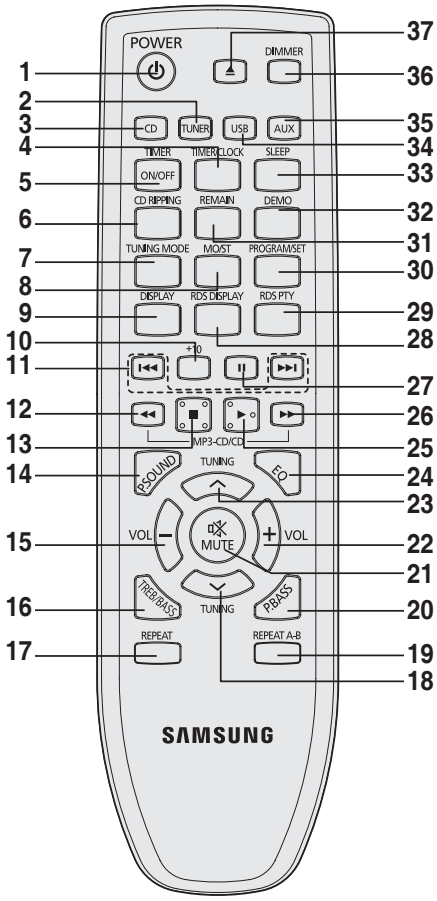
1. POWER BUTTON
2. FUNCTION BUTTON
3. SEARCH FUNCTION BUTTON(DOWN)
4. TUNING MODE OR STOP BUTTON
5. PLAY/PAUSE BUTTON
6. SEARCH FUNCTION BUTTON(UP)
7. CD OPEN/CLOSE BUTTON

Rear Panel View



1. **AUX IN**
2. **FM Aerial Connector Terminal**
3. **Speaker Connector Terminals**
4. **Clamp-Wire**
   (Fasten the speaker wires.)

Remote Control



1. **POWER**
2. **TUNER**
3. **CD**
4. **TIMER/CLOCK**
5. **TIMER ON/OFF**
6. **CD RIPPING**
7. **TUNING MODE**
8. **MO/ST**
9. **DISPLAY**
10. **+10**
11. **Skip and Search**
12. **Fast-Rewind**
13. **STOP**
14. **POWER SOUND**
15. **VOLUME -**
16. **TREB/BASS**
17. **REPEAT**
18. **TUNING ﹀**
19. **REPEAT A-B**
20. **P.BASS**
21. **MUTE**
22. **VOLUME +**
23. **TUNING ﹀**
24. **EQ**
25. **PLAY**
26. **Fast-Forwardy**
27. **PAUSE**
28. **RDS DISPLAY**
29. **RDS PTY**
30. **PROGRAM/SET**
31. **REMAIN**
32. **DEMO**
33. **SLEEP**
34. **USB**
35. **AUX**
36. **DIMMER**
37. **OPEN/CLOSE**

ENG

Where to Install Your Micro-Compact System

To take full advantage of your new micro-compact system, follow these installation instructions before connecting the unit.

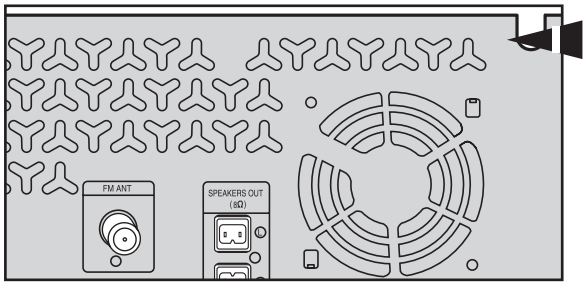
- Install the system on a flat, stable surface.
- Never place this unit on carpeting.
- Never place this unit in an outdoor area.
- Maintain an open space of approximately 6 inches (15 cm) on the sides and rear of the system, for ventilation purposes.
- Make sure that you have enough room to open the compact disc compartment easily.
- Place the loudspeakers at a reasonable distance on either side of the system to ensure good stereo sound.
- Direct the loudspeakers towards the listening area.
- For optimum performance, make sure that both speakers are placed at an equal distance above the floor.

Connecting your System to the Power Supply

☛ Before plugging your system into a main socket, you must check the voltage.

1 Plug the main lead into an appropriate socket.

2 Press the ⏻ **(POWER)** button to switch your micro-compact system .



Inserting Remote Control Batteries

Insert or replace remote control batteries when you:
- Purchase the micro-compact system
- Find that the remote control is no longer operating correctly

☛ When replacing the batteries, use a new set of batteries and never mix alkaline and manganese batteries.

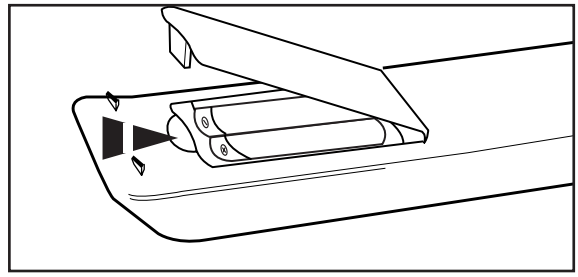
1 Place your thumb on the position marked ▶ on the battery compartment cover (rear of the remote control) and pull the cover in the direction of the arrow.

2 Insert two AAA, LR03 or equivalent batteries, taking care to respect the polarities:
- + on the battery against + in the battery compartment
- – on the battery against – in the battery compartment

3 Replace the cover by sliding it back until it clicks into position.

➢ If you will not be using the remote control for a long time, remove the batteries to prevent corrosion.

➢ The remote control can be used up to approximately 7 meters in a straight line. It can also be operated at a horizontal angle of up to 30° from the remote control sensor.

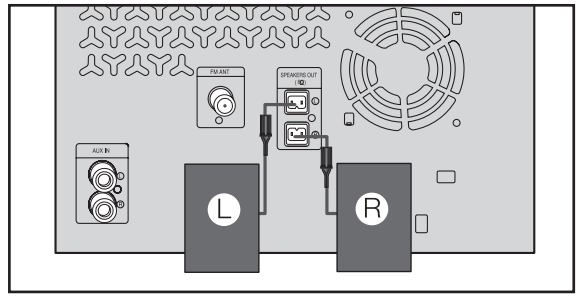


Connecting the Loudspeakers

The loudspeaker connector terminals are located on the rear of the system.

There are two terminals on the system:
- left speaker (marked L)
- right speaker (marked R)

To achieve the correct sound quality,insert those speaker connector cables to the speaker connector terminals of the system.



Connecting to an External Source

The auxiliary input can be used to take advantage of the sound quality of your micro-compact system when listening to other sources.

Examples: ♦ A television
♦ A DVD player
♦ A VCR

➢ To connect to the external source, the source must have an audio output. In addition, you need an connection cable.

1 Set the system to standby mode and disconnect it and the external source from the main socket.

2 Connect the audio cable to the rear of the micro component system.

➢ Be sure to match connector colours.

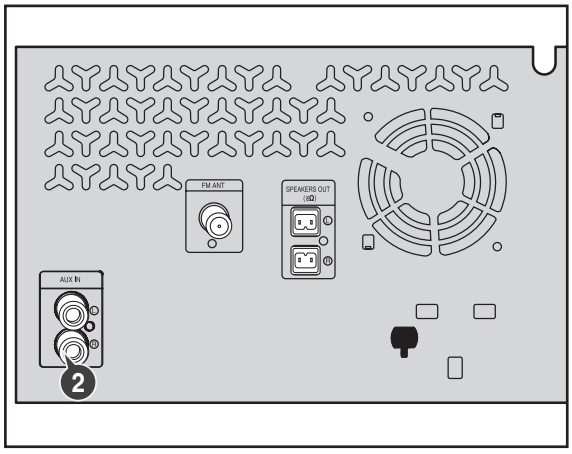
3 Plug the system back into the main socket and press **POWER** to switch it on.

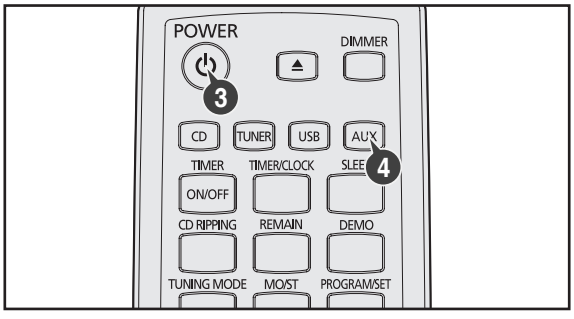
4 Select the AUX source by pressing **AUX**.
Result: **AUX** is displayed.

5 Switch the external source on.

6 Adjust the volume and balance as required:
♦ Volume ♦ Equalizer

Example: You can watch a film and take advantage of stereo sound provided that the original sound track is in stereo (as if you were in a cinema).

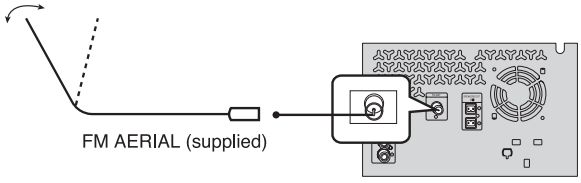


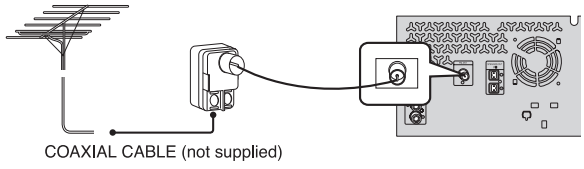


Connecting the FM Aerial

How to connect a COAXIAL TYPE aerial.

♦ Connect a antenna to the **FM** antenna terminal.
♦ Plug the connector on the **FM** aerial supplied into the coaxial socket marked **FM** on the rear of the system.
♦ Follow the instructions given on **Page 16** to tune into a radio station, and determine the best position for the aerial.
♦ If reception is poor, you may need to install an outdoor aerial.
To do so, connect an outdoor **FM** aerial to the **FM** socket on the rear of the system using a coaxial cable (not supplied).





ENG

DEMO/DIMMER function

All functions available on the system can be viewed on the display and the display's brightness can be switched between "on" and "off".

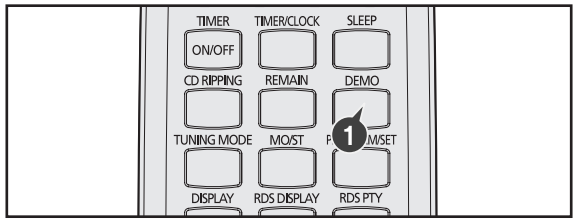
1 Press the **DEMO** button.
Result: All functions available on the system appear on the front panel display.

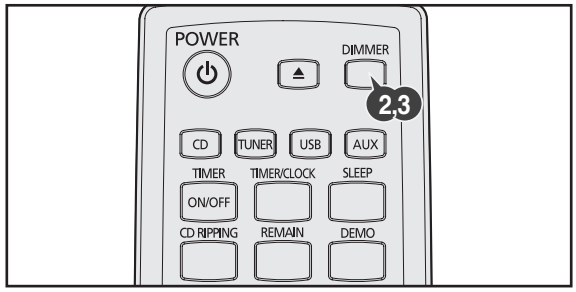
➢ Each of these are explained in detail in this guide. Please refer to the relevant section.

2 Press the **DIMMER** button.
Result: The Dimmer function is selected and the display darkens.

3 Press the **DIMMER** button once again to brighten the front panel display.

➢ A display brightness control can only be performed while the system power is on.





Setting the Clock

Your system is equipped with a clock which allows you to turn your system on and off automatically.
You should set the clock:
- When you first purchase the micro-compact system
- After a power failure
- After unplugging the unit

☛ ♦ For each step, you have a few seconds to set the required options. If you exceed this time, you must start again.

1 Switch the system on by pressing **POWER**.

2 Press **TIMER/CLOCK** twice.
Result: **CLOCK** is displayed.

3 Press **PROGRAM/SET**.
Result: The hour flashes.

4

To...	Press the TUNING button
Increase the hours	^
Decrease the hours	v

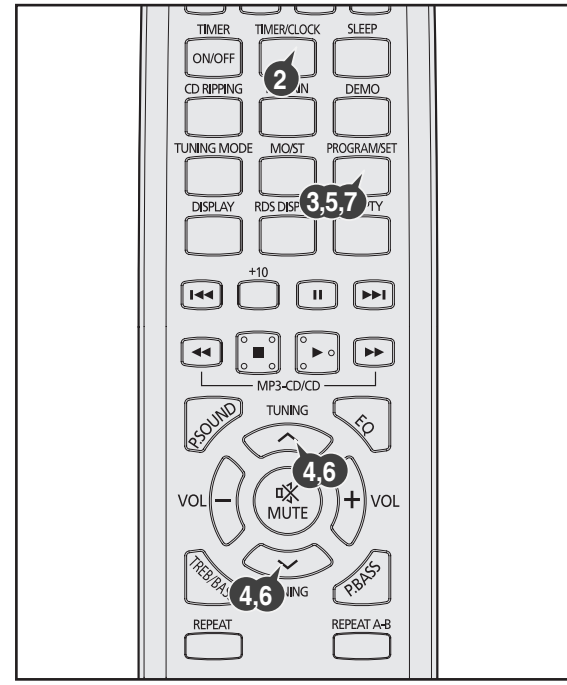
5 When the correct hour is displayed, press **PROGRAM/SET**.
Result: The minutes flash.

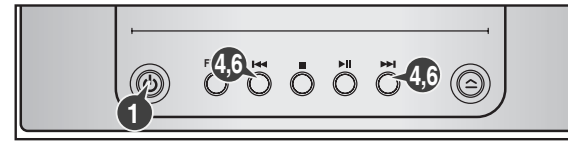
6

To...	Press the TUNING button
Increase the minutes	^
Decrease the minutes	v

7 When the correct time is displayed, press **PROGRAM/SET**.

➢ ♦ You can display the time, even when you are using another function, by pressing **TIMER/CLOCK** once.
♦ You can also use ⏮, ⏭ buttons on the main unit to instead of **TUNING** button ^ or v in step **4**, **6**.





To play the CD/MP3/WMA-CD

You can play 12 cm or 8 cm compact disc without an adapter.

☛ You can play 12 cm or 8 cm compact discs without an adapter. This unit has been designed to playback the CDs: Audio CD, CD-R, CD-RW and MP3/WMA,-CD.
Continued use of irregular shape CDs (heart-shape, octagonal, etc.)can damage the unit.

1 Select the CD function by pressing **PLAY/PAUSE(▶II)** button.

2 Press the Open/Close(⏏) button.
Result: The compartment opens.

3 Place your disc in the compartment, with the label on the disc facingupwards.

4 Close the compartment by pressing the Open/Close(⏏) button again.

5 Press the **PLAY/PAUSE(▶II)** button.
- ♦ Your CD Player will take a few moments to scan through all the tracks recorded on a particular MP3/WMA-CD.
- ♦ The English name of the song may be indicated on the display only if directly downloaded from the PC or if the purchased MP3/WMA-CD is sorted according to titles(directory). (Other languages besides English may not be indicated.)
- ♦ The English name of the track may not be indicated depending on the characteristics of the MP3/WMA-CD.

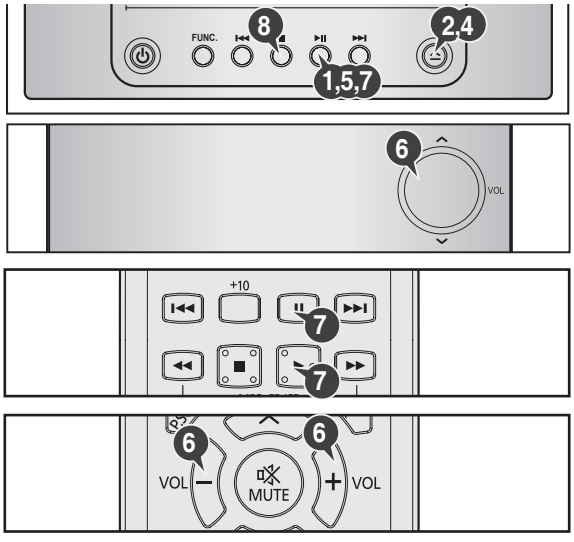
6 Adjust the volume according to needs with the following procedures.
Press the VOLUME button of the main unit.
or
Press the VOLUME+or –button of the remote control. The volume level can be adjust in(VOL MIN,VOL 1- VOL 29,andVOL MAX).

7
Main set
To pause playback temporarily, press the **PLAY/PAUSE(▶II)** button.
Press **PLAY/PAUSE(▶II)** again to continue playing the disc.

Remote control
To pause playback temporarily, press the **PAUSE(II)** button.
Press **PLAY(▶)** button to continue playing the disc.

8 Press the STOP(■) button when you have finished.

➢ Press and hold OPEN/CLOSE(⏏) button for 5 seconds, "LOCK"will be displayed and the compartment doesn't open.In this way you must press and hold OPEN/CLOSE(⏏) button for along time until "UNLOCK" will be displayed, the compartmentcan open.



Selecting a Track

You can select the track you wish to listen to when a disc is playing.

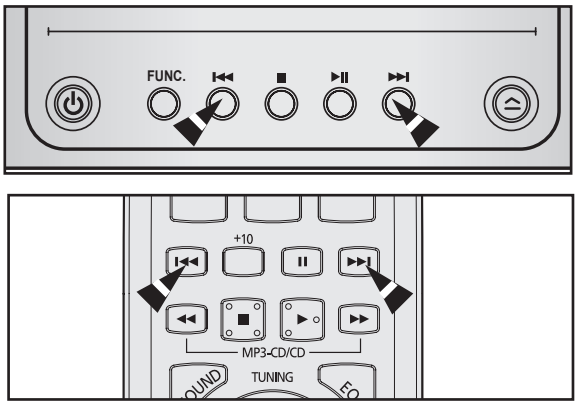
To play the previous track
Press the ⏮ within 3 seconds after the current track started playing.
Press the ⏮ twice 3 seconds after the current track started playing.

To play the next track
Press the ⏭ .

To play the current track
Press the ⏮ 3 seconds after the current track started playing.

To play the track of your choice
Press the ⏮ or ⏭ the appropriate number of times.

♦ You can also use the ⏮ or ⏭ buttons on the remote control to select a track.

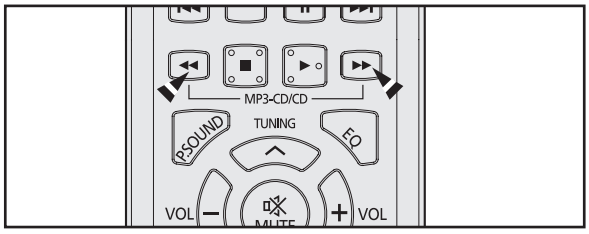


Searching for a Specific Music Passage on a CD

When listening to a compact disc, you can quickly search for a specific music passage on a track.

To search through the tracks...	Press ...
Forwards	▶▶
Backwards	◀◀

➢ You can also press and hold down ⏮, ⏭ on the main unit to auto search through the tracks.



ENG

What is WMA?

WMA means Windows Media Audio, the global standard for audio signal compression technology.

What is MP3?

MP3 means MPEG1 Layer 3, the global standard for audio signal compression technology. It uses digital compression technology to compress original sound data by up to 12 times without sound quality degradation.

File Compatibility

- The unit will playback files created in MP3 format (Mpeg1.Layer3) with *.mp3 as their extension,and some WMA files with.WMA extension can't be playback.
- Playback will be impossible for the file of MP2 or 22KHz.

How many MP3 files can a CD-R or CD-RW disc record?

The maximum capacity of one CD-R or CD-RW disc is 680MB.

Normally, one MP3 file has a capacity of 4MB, therefore approximately 170 files can be recorded on a single disc.

Regarding the playback of CD-R/RW

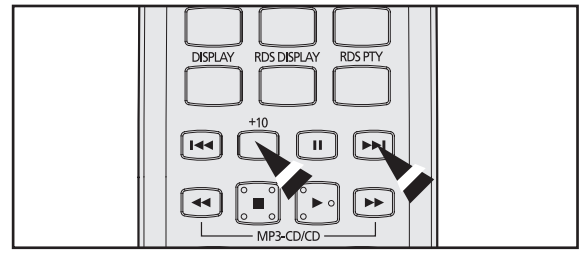
- In the case of an original CD-R(Recordable) recorded in audio CD format, CD-RW(Rewritable) and editing by the user, playback is processed on the respective completed status. (The player may not be played back according to the characteristics of the CD or recorded status.)
- The CD-RW is comparably less reflexive than CD which causes more time delay to read.

Function to skip through 10 tracks at a time

Press the +10 button briefly while playing back a CD and MP3/WMA-CD . The track 10 tracks after the current one will then be played back.

Example: If you want to select track 43 during playback of track 5, press the **+10** button four times, and then press the ⏭ button three times .

5 → 10 → 20 → 30 → 40 → 41 → 42 → 43



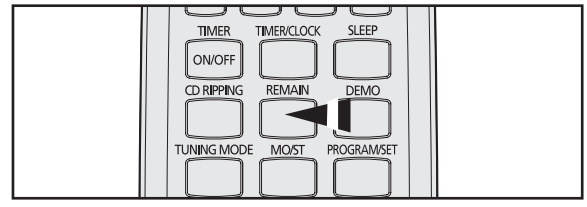
Remain Function

You can check the remaining time.

1 Press the **REMAIN** button .

◆If you press the REMAIN button, the remaining time is displayed.

2 To cancel this function, press the **REMAIN** button again.

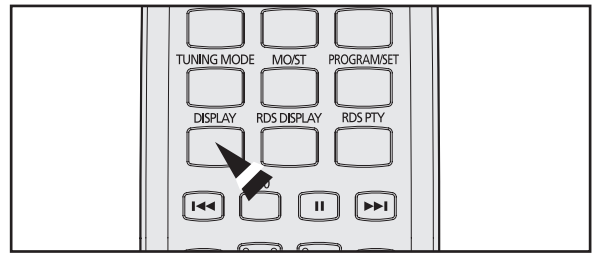


Display Function
(This function is not available during playback of an MP3/WMA-CD.)

You may check the total tracks of the disc.

1 **Press the DISPLAY button.**

Result: The total tracks numuber of the disc is displayed, and it will disappear after 3 seconds.



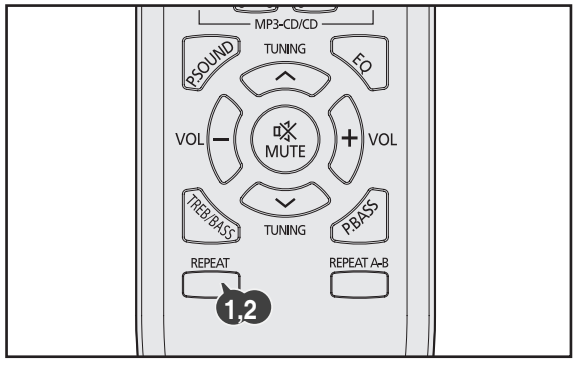
Repeating One or All Tracks on the Compact Discs

You can repeat indefinitely:
- A specific track on a compact disc.
- All tracks on the compact disc selected.

1 Press REPEAT button.
Each time you press the REPEAT button, the repeat mode will change as follows:
MP3: RPT TRK → RPT DIR → RPT DISC → RPT SHF → RPT OFF.
CD: RPT TRK → RPT DISC → RPT SHF → RPT OFF.

2 When you wish to stop the Repeat function, press **REPEAT** until **RPT OFF** is displayed.

- **RPT TRK:** Repeatedly plays the selected track.
- **RPT DIR:** Repeatedly plays all tracks in the selected folder.
- **RPT DISC:** Repeatedly plays the entire disc.
- **RPT SHF:** Plays tracks in random order.(Each track can be played one time.)
- **RPT OFF:** Cancels Repeat Playback.



A-B Repeat Playback

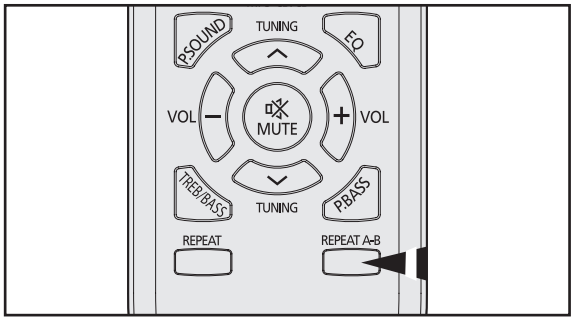
You can repeatedly play back a designated section of a CD/MP3/WMA-CD.

1 Press the **REPEAT A-B** button at the beginning of desired part.
- 'RPT A-' shows.

2 Press the **REPEAT A-B** button at the ending of desired part.
- 'RPT A-B' shows.

3 To cancel REPEAT A-B function, press **REPEAT A-B** button again.

➢ Point B cannot be set until 5 seconds of playback has elapsed from point A.



Programming the Order of CD Playback
(This function is not available during playback of an MP3/WMA-CD.)

You can decide:
- The order of the track desired to listen
- The track not desired to listen

➢
- You can program up to 24 tracks.
- You must stop the compact disc player before selecting the tracks.

---

1 If the CD function is selected, stop the player by pressing ■ .

2 Press **PROGRAM/SET**.

Result: The following indications are displayed:

P601 : -- --

(01 = Program no., -- -- = Track no. on the disc)

3 Select the required track by pressing the ⏮ or ⏭ button:
- Press the ⏮ button to move back through the tracks.
- Press the ⏭ button to move forward through the tracks.

4 Press **PROGRAM/SET** to confirm your selection.

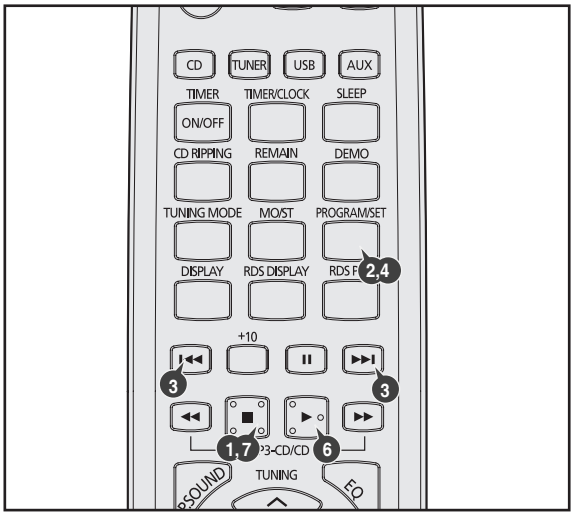
Result: The selection is stored and P602 : -- -- is displayed.

5 To select other tracks, repeat Steps **3** to **4**.

6 Press **PLAY** (▶) to listen to the track selection in the order programmed.

7 When press ■ button one time , compact disc player is stopped, and press ■ button again to cancel the selection.

➢ **If you open the compartment or turn off the power, the selection is cancelled.**



Checking or Changing Programmed CD Tracks

ENG

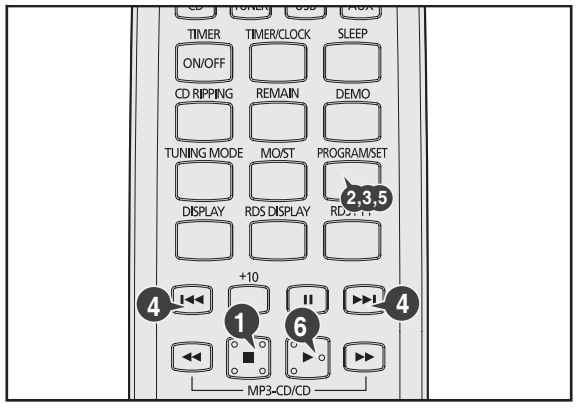
You can check or change your selection of tracks at any time.

1. Press ■ once if you have started listening to the selection.
2. Press **PROGRAM/SET**.
   Result: The following indications are displayed:

   CH01 01

   (CH = Check, 01=Program No., -- -- = Track No. on the disc)

   ➢ If you have already programmed 24 tracks, **CH** is displayed instead of **PR** when you press **PROGRAM/SET**.
3. Press **PROGRAM/SET** once or more times until the track to be changed is displayed.
4. Press ⏮ or ⏭ button to select a different track.
5. Press **PROGRAM/SET** to confirm your change.
6. Press **PLAY** (▶‖) to start listening to the selection.
   Result: The first track selected is played.



Playing USB

You can play MP3/WMA files by connecting to various external USB storage devices such as USB flash memory or HDD(Hard Disc drives).

1. Connect the external USB storage device to your player.
2. Select USB function by pressing the **USB** button.
   ♦ The first track of the first directory plays automatically.

   ➢ **To stop playing**
   Press the Stop (■) button to stop playing.

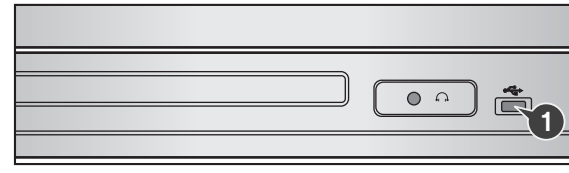
☛ ♦ Do not connect a USB charging device to the USB connection port on the player, because it may cause damage to the product.

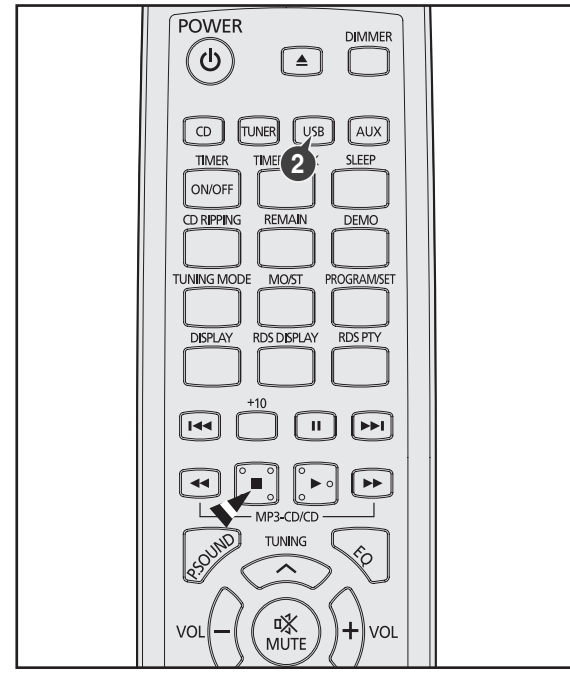
Please be aware of the following before using USB.

- ♦ Some external USB storage devices may not be compatible with this player.
- ♦ With external HDD, FAT format can be played, however,the NTFS format can not.
- ♦ With USB 2.0 HDD, connect to a separate power source. If it's not connected to a separate power source, it may not work.
- ♦ If memory of an external USB storage device is segmented into several parts, MP3 files of only the first hard disk drive can be played.
- ♦ DRM applied files are not played. Digital Rights Management: Technology and service that protect the profit and rights of copyright owners by disallowing unauthorised use of digital contents.
- ♦ Even if the file name ends with .mp3, the file does not play if actual file format is MPEG layer 1 or 2.
- ♦ Do not use a USB hub as it will not be recognized.
- ♦ Up to 15 letters of MP3/WMA file name will be shown.
- ♦ Removable HDDs equipped with less than 160 Gbytes are supported. Removable HDDs equipped with 160Gbytes or more may not be recognized, depending on the device.

Delay

- ♦ When selecting USB function,file reading (READ-IN) may take several minutes.
- ♦ When playing a USB device,there may be a delay then advancing to the next track,especially with HDD. The operation time of external USB storage devices will vary;even when they are of the same capacity.
- ♦ If the external USB storage device supports only USB VER1.1 and the access speed is slow,the file may not property.



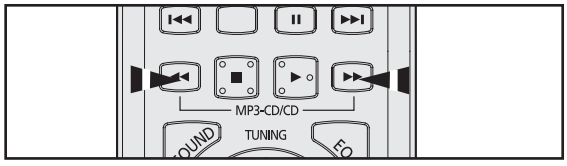


To use high speed search

Before you begin! ♦ Connect the external USB storage device to your player.
♦ Select USB function by using the USB button.

You can search the desired section quickly during the play

➢ Press the ◀◀ , ▶▶ button.
♦ Whenever you press the button, you can search backward or forward quickly.
☛ When you use the high speed search function, there is no sound.



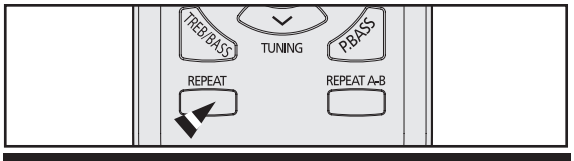
To repeat

Before you begin! ♦ Connect the external USB storage device to your player.
♦ Select USB function by using the USB button.

➢ Press REPEAT button.
Each time you press the REPEAT button, the repeat mode will change as follows:
RPT TRK → RPT DIR → RPT ALL → RPT SHF → RPT OFF.

When you wish to stop the Repeat function, press **REPEAT** until **RPT OFF** is displayed.

♦**RPT TRK:** Repeatedly plays the selected track.
♦**RPT DIR:** Repeatedly plays all tracks in the selected folder.
♦**RPT ALL:** Repeatedly plays all tracks.
♦**RPT SHF:** Plays tracks in random order. (Each track can be played one time.)
♦**RPT OFF:** Cancels Repeat Playback.



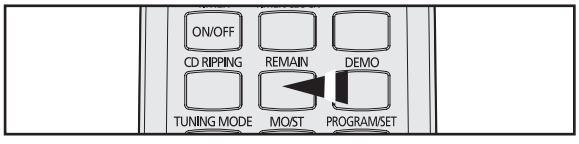
Remain Function

You can check the remaining time.

Before you begin! ♦ Connect the external USB storage device to your player.
♦ Select USB function by using the USB button.

1 Press the **REMAIN** button .
♦If you press the REMAIN button, the remaining time is displayed.

2 To cancel this function, press the **REMAIN** button again.



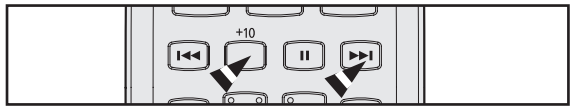
To skip next 10 tracks

Before you begin! ♦ Connect the external USB storage device to your player.
♦ Select USB function by using the USB button.

➢ Press the **+10** button on the remote control shortly during the play.
Example: If you want to select 43rd track while 15th track is playing, press the **+10** button 3 times, and then press the ▶▶| button 3 times .

15 → 20 → 30 → 40 → 41 → 42 → 43

+10 +10 +10 ▶▶| ▶▶| ▶▶|



To repeat section

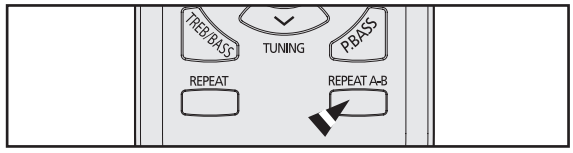
Before you begin! ♦ Connect the external USB storage device to your player.
♦ Select USB function by using the USB button.

1 Press the **REPEAT A-B** button at the beginning of desired part.
♦ 'RPT A-' shows.

2 Press the **REPEAT A-B** button at the ending of desired part.
♦ 'RPT A-B' shows.

3 To cancel REPEAT A-B function, press **REPEAT A-B** button again.

➢ Point B cannot be set until 5 seconds of playback has elapsed from point A.

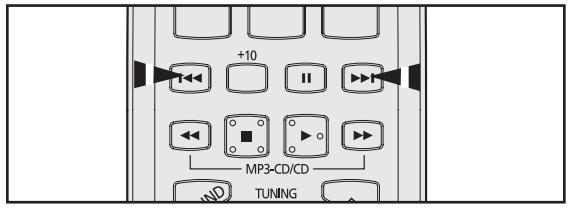


Selecting a Track from USB Device

You can select an MP3 file during the play.

Before you begin! ♦ Connect the external USB storage device to your player.
♦ Select the USB function by using the USB button.

➢ If you want to move the next/previous(track), press the |◀◀ , ▶▶| button shortly.
♦ It moves the next/previous file within the directory.
♦ If you press the |◀◀ , ▶▶| button more times than the number of the files in the directory, it will move over to the next directory.



ENG

About RDS broadcasting

This unit has the RDS (Radio Data System) function, which enables for the various information such as broadcasting station, radio text, time and 30 types of programs (News, Rock, Classic, etc.) to be received from the FM RDS station together with normal radio signal.

1 Press the **(⏻)** button.

2 Receive the FM radio.
- ♦ See the radio receiving method on the **page 16**.
- ♦ FM and frequency are shown on the display

3 Press the **RDS DISPLAY** button to select the desired RDS mode.
- ♦ Whenever the button is pressed, RDS mode changes as follows.

→ PS NAME → RT → CT → Current FM frequency →

☛ ♦ The RDS function is available only in **FM** broadcasting.

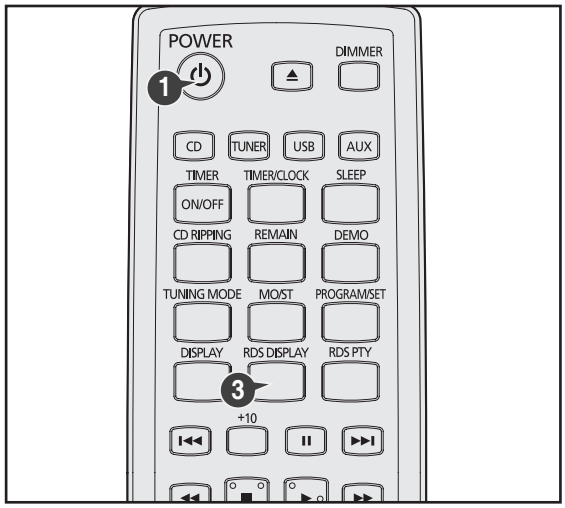
♦ RDS may not operate correctly if the station tuned is not transmitting RDS signal property or if the signal strength is weak.

♦ **Description on RDS function**

1. **PTY**(Program Type) : Displays the type of programme currently being broadcast .
2. **PS NAME**(Program Service Name) : Indicates the name of broadcasting station and is composed of 8 characters.
3. **RT**(Radio Text) : Decodes the text broadcast by a station (if any) and is composed of maximum 64 characters.
4. **CT**(Clock Time) : Decodes the real time clock from the FM frequency.

➢ Some stations may not transmit PTY, RT or CT information therefore this may not be displayed in all cases.

5. **TA**(Traffic Announcement) : When this symbol flashes it shows that the traffic announcement is in progress.



About RDS DISPLAY function

About "PS NAME" MODE

➢ Displays the name of broadcasting station.

Press the **RDS DISPLAY** button to select the PS NAME.
- ♦ "**PS NAME**" appears on the display.
- ♦ If the PS information is being received, the PS name (BBC, AFO, NDR, etc.) is shown on the display.
- ♦ If the PS information isn't received, the original FM frequency is shown.

☛ Even though no **RDS DISPLAY** button is pressed, the reception of PS information ensues the PS name is displayed.

About 'RT' MODE

➢ Displays the character transmitted from the broadcasting station.

Press the **RDS DISPLAY** button to select the RT MODE.
- ♦ "**RT**" appears on the display.
- ♦ If the RT information is being received, the received information is shown on the display.
- ♦ If the RT information isn't received, the "**NO RT**" is shown on the display.

About CT(Clock Time)

➢ Sets the time of RDS clock.

To select the CT time, set the **RDS DISPLAY** button to CT MODE.

☛ ♦ The CT information will take up to 2 minutes to be decoded therefore the clock isn't displayed immediately.
♦ If there is no received CT information, "**NO CT**" is displayed.

PTY(Program Type) indication and PTY-SEARCH function

ENG

- The PTY information is composed of an identification symbol, which helps the FM radio to recognize the program type of each FM station.
- The below 30 PTY information is shown on the display by pressing the RDS PTY button.
- To stop searching any time during the process, press TUNING MODE while searching.
- There is a time limit in doing the followings steps.If the setting is cancelled before you finish,start from step 1 again.
- When pressing the buttons on the primary remote control,make sure that you have selected the FM station using the primary remote control.

Display	Program Type
NEWS	• News including an announced opinion and report
AFFAIRS	• Several matters including a current incident, documentary, discussion and analysis.
INFO	• Information including weights and measures, returns and forecast, matters interesting the customer, medical information, etc.
SPORT	• Sports
EDUCATE	• Education
DRAMA	• Drama-Radio serial, etc.
CULTURE	• Culture-National or local culture including the religious problem, social science, language, theatre,etc.
SCIENCE	• Natural science and technology
VARIED	• Others-Speech, amusing program (quiz, game), interview, comedy and satirical play, etc.
POP M	• Pop music
ROCK M	• Rock music
M.O.R.M	• M.O.R- Comfortable music, occasionally vocal or piece
LIGHT M	• Light classical music- Classical music and instrumental and chorus music
CLASSICS	• Heavy classical music-Orchestra music, symphony, chamber music and opera
OTHER M	• Other music - Jazz, R&B country music
WEATHER	• Weather
FINANCE	• Finance
CHILDREN	• Children's programmes
SOCIAL	• Social affairs
RELIGION	• Religion
PHONE IN	• Phone in
TRAVEL	• Travel
LEISURE	• Leisure
JAZZ	• Jazz Music
COUNTRY	• Country Music
NATION M	• National Music
OLDIES	• Oldies Music
FOLK M	• Folk Music
DOCUMENT	• Documentary
TEST	• Alarm Test

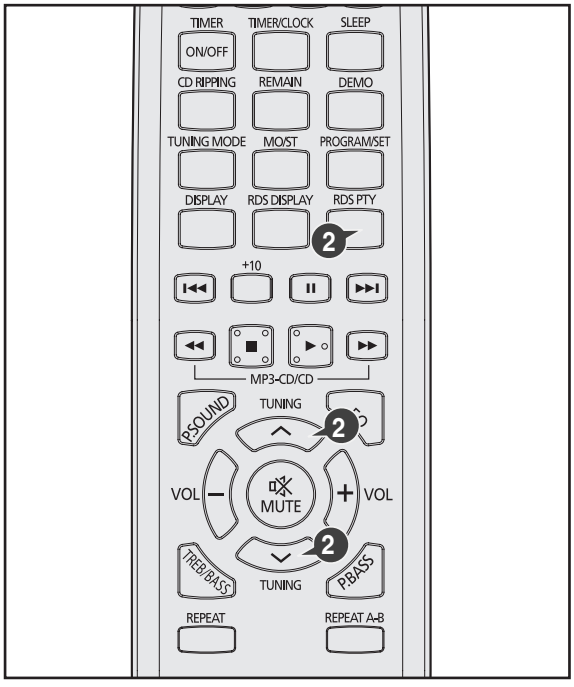
About PTY-SEARCH

1 Receive the FM radio.
- ♦ See the radio receiving method on the **page 16**.
- ♦ The FM and frequency appear on the display.

2 Press the **RDS PTY** button.
- ♦ The PTY MODE(NEWS, AFFAIRS, etc.) appears on the display.
- ♦ Press the TUNING ∧ or ∨ button to select the desired PTY MODE.

➢ ♦ If the station is transmitting no PTY information, 'NO PTY' lights on the display.
♦ When the PTY MODE is selected(The PTY MODE is shown on the display), press the PTY KEY once again to convert into PTY-SEARCH MODE and auto-search the station sequentially.
♦ If the PTY MODE received in the course of auto-search agrees with the selected PTY MODE, the auto-search stops and the PTY-SEARCH is finished.

☛ If the PTY MODE which agrees with the PTY MODE selected in the course of auto-search, isn't received, it is returned to the first frequency at beginning the PTY SEARCH and the auto-search and PTY SEARCH are suspended.



Searching for and Storing the Radio Stations

ENG

You can store up to:

- 15 FM stations

1 Switch the system on by pressing **POWER**.

2 Select the TUNER function by pressing **TUNER**.

3

To search for a station...	Press TUNING MODE button
Preset	Once or more times until **PRESET** is displayed.
Automatically	Once or more times until **AUTO** is displayed.
Manually	Once or more times until **MANUAL** is displayed.

4 Select the station to be stored by:
- Pressing **TUNING** ∧ or ∨ on the remote control.

- To scroll through the frequencies faster when searching manually, hold down the ⏮ or ⏭ buttons.
- The automatic search procedure may stop on a frequency that does not correspond to a radio station. If this happens, use the manual search mode.

5 Adjust the volume by:
- Press the **VOLUME** button on the main unit

or
- Pressing the **VOLUME +** or **–** buttons on the remote control

6 Select the FM stereo or mono mode by pressing **MO/ST**.

7 If you do not want to store the radio station found, revert to Step **3** and search for another station.

Otherwise:

a Press **PROGRAM/SET**.

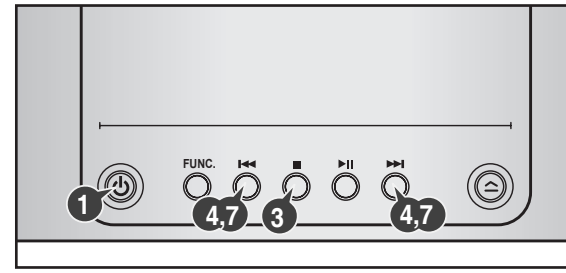
b Press ⏮ or ⏭ on the main unit or press **TUNING** ∧ or ∨ on the remote control to assign a program number .

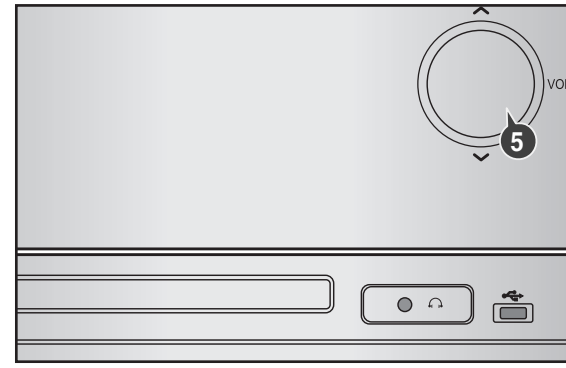
c Press **PROGRAM/SET** to store the radio station.

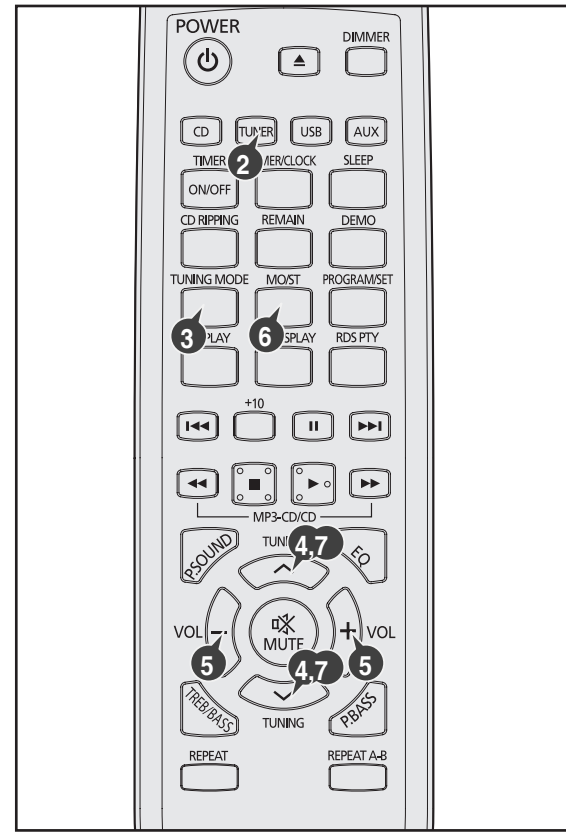
8 To store any other radio frequencies required, repeat Steps **3** to **7**.

In Tuner mode

- In manual tuning mode, you can use ⏮, ⏭ button on the main unit to manual search a radio station.
- During Tuner auto searching, press ■ button on the main unit or TUNING MODE button on the remote control to stop auto searching.
- In Preset tuning mode, you can use ⏮, ⏭ button on the main unit to search a stored radio station.



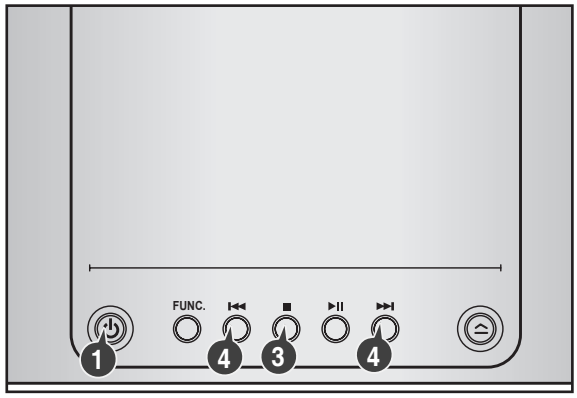


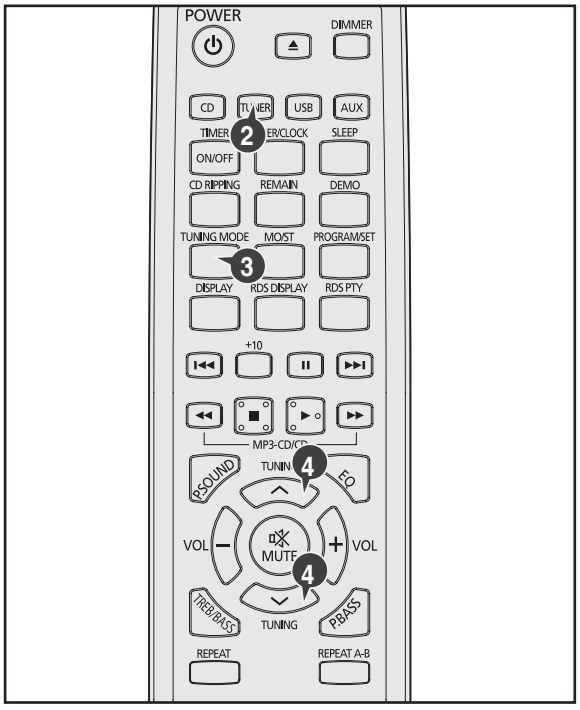


Selecting a Stored Station

You can listen to a stored radio station as follows:

1. Switch the system on by pressing **POWER**.
2. Select the TUNER function by pressing **TUNER.**
3. Press the **TUNING MODE** button on the remote control or on the main unit until "**PRESET**" is displayed.
4. Press ⏮ or ⏭ to select the desired station.
   or
   Select the desired station by pressing the **TUNING** ∧ or ∨ button on the remote control.
   Result: The desired station is now received.



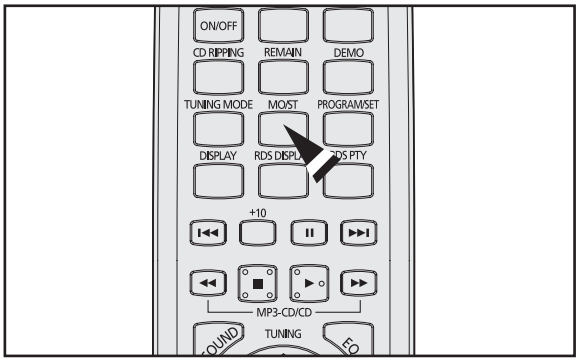


Improving Radio Reception

You can improve the quality of radio reception by:

- Rotating the FM aerial
- Testing the positions of the FM aerials before fixing them permanently

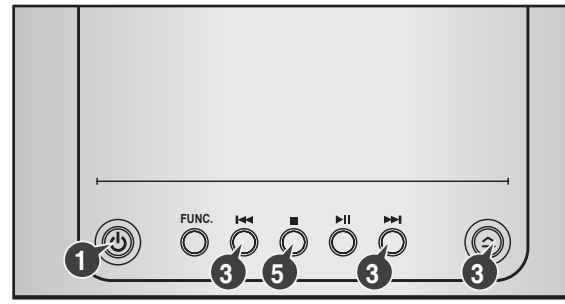
➢ If reception from a specific FM radio station is poor, press **MO/ST.** to switch from stereo mode to mono. The quality of the sound will be improved.

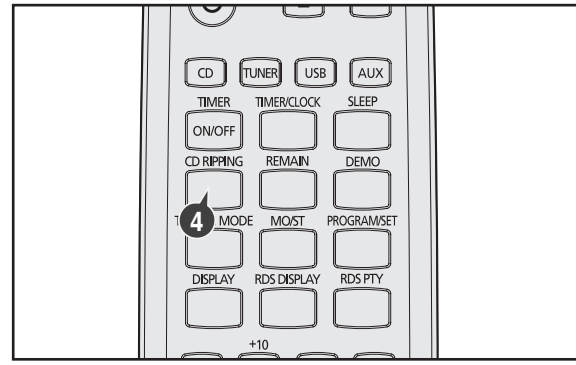


CD RIPPING Function

ENG

You can rip a compact disc as a MP3 file on the USB
This feature enables you to ripping with the start of the disc or track of your choice.





1 Switch the system on by pressing **POWER**.

2 Connect the USB.

3 Load a compact disc(Digital Audio).

♦ Press the **OPEN/CLOSE** button to open the CD door.
♦ Insert a CD and press the **OPEN/CLOSE** button to close the CD door.

♦ Use the CD selection (⏮ or ⏭) buttons to select the desired song.

4 Press **CD RIPPING** button on remote control to starting ripping.

- ♦ If the system is playing state, press this button, “TRACK RIPPING” is displayed and CD RIPPING starts.
- ♦ If the system is playing state, press and hold this button, “FULL CD RIPPING” is displayed and CD RIPPING starts.
- ♦ During CD ripping, do not disconnect USB device.

5 To stop ripping, press STOP(■)button and then automatically create and save as the MP3 file.

After CD-Ripping, a directory named “RIPPING” will be created in your device, and the file name is same with the disc.

Note

- ◆Don’t disconnected USB and AC Cord during CD-Ripping. This may cause the file damage. If you want to stop CD-Ripping during CD-Ripping, you must press stop Key first and after the CD Stopped, then you can remove the USB device.
- ◆If you disconnected USB device when CD Ripping, the main unit will be power off and you may not delete the ripped file,In this case, please connect the USB on the PC and backup the USB data on the PC first and then formate the USB device.
- ◆When the USB memory is not enough, it will be displayed “RIPPING ERROR”.
- ◆DTS-CD can’t for CD Ripping.
- ◆With external HDD, FAT format the USB can be CD Ripping, but not NTFS. The CD Ripping function of this product does not support all USB devices.
- ◆When you use CD high speed search function or in the Pause or Stop mode, the CD Ripping can’t work.
- ◆During CD Ripping, do not deal impact.If is shocked while CD Ripping, CD Ripping maybe disengage.
- ◆Sometimes, some of USB devices, CD Ripping time is long.
- ◆In program mode, you can't use CD RIPPING function.

Timer Function

The timer enables you to switch the system on or off at specific times.
Example: You wish to wake up to music every morning.

➢ If you no longer want the system to be switched on or off automatically, you must cancel the timer.

☛ ♦ Before setting the timer, check that the current time is correct.
♦ For each step, you have a few seconds to set the required options. If you exceed this time, you must start again.

1 Switch the system on by pressing **POWER**.

2 Press **TIMER/CLOCK** thrice, **TIMER** is displayed.

3 Press **PROGRAM/SET**.
Result: **ON TIME** is displayed for a few seconds, followed by any switch-on time already set; you can set the timer switch-on time.

4 Set the timer switch-on time.
a Press the **TUNING** ∧ or ∨ buttons.
b Press **PROGRAM/SET**.
Result: The minutes flash.
c Press the **TUNING** ∧ or ∨ buttons.
d Press **PROGRAM/SET**.
Result: **OFF TIME** is displayed for a few seconds, followed by any switch-off time already set, you can now set the timer switch-off time.

5 Set the timer switch-off time.
a Press the **TUNING** ∧ or ∨ buttons.
b Press **PROGRAM/SET**.
Result: The minutes flash.
c Press the **TUNING** ∧ or ∨ buttons.
d Press **PROGRAM/SET**.
Result: **VOL XX** is displayed, where **XX** corresponds to the volume already set.

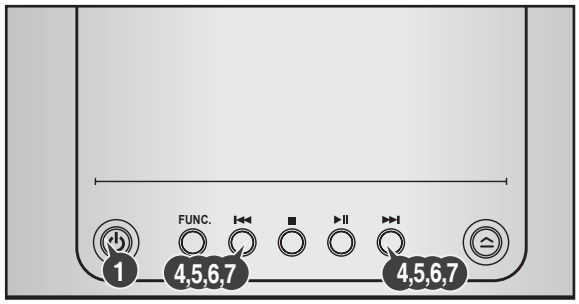
6 Press **TUNING** ∧ or ∨ to adjust the volume level and press **PROGRAM/SET**.
Result: The source to be selected is displayed.

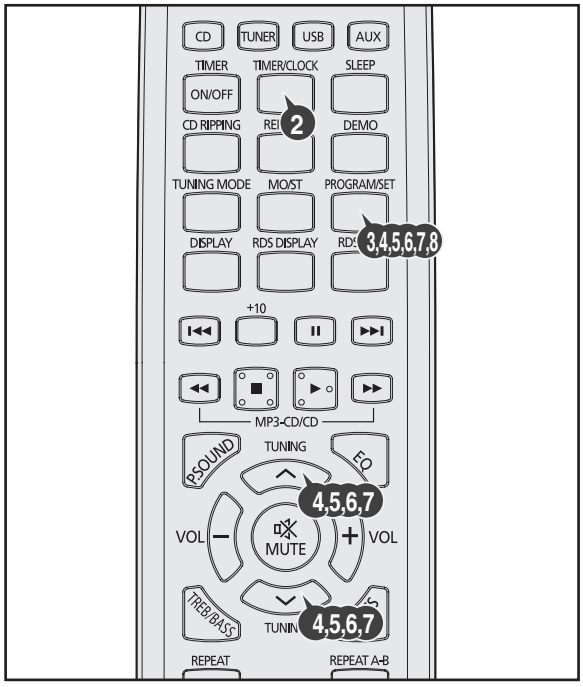
7 Press the **TUNING** ∧ or ∨ buttons to select the source to be played when the system switches on.

If you select...	You must also...
TUNER (radio)	**a** Press **PROGRAM/SET**. **b** Select a preset station by press the **TUNING** ∧ or ∨ buttons.
CD (compact disc)	Load disc.
USB	connect usb.

8 Press **PROGRAM/SET** to confirm the timer.

➢ ♦If the timer switch on and off times are identical, the word **ERROR** is displayed.
♦You may use ⏮, ⏭ buttons on the main unit to instead of the **TUNING** ∧ or ∨ buttons to adjust in step **4**, **5**, **6**, **7**.

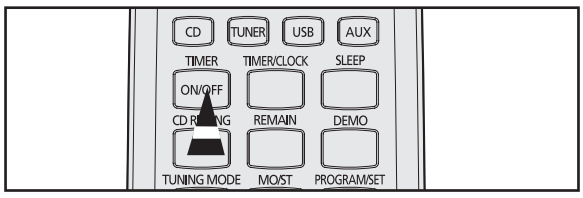




Cancelling the Timer

After having set the timer, it will start automatically as shown by the TIMER indication on the display. If you no longer wish to use the timer, you must cancel it.

To...	Press TIMER ON/OFF...
Cancel the timer	Once. Result: is no longer displayed.
Restart the timer	Twice. Result: is displayed again.



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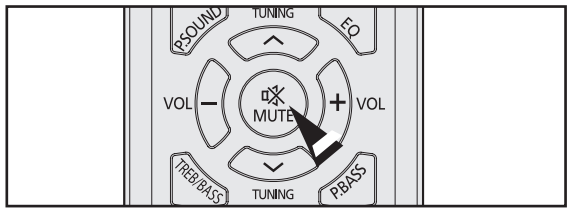
Mute Function

You can turn the sound off temporarily on your system.
Example: You wish to answer a telephone call.

1 Press **MUTE**.

2 To switch the sound back on , press **MUTE** again or the **VOLUME** buttons.

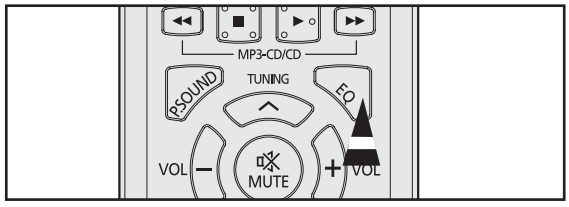


Selecting EQ Mode

Your micro-compact system is equipped with a preset equalizer that allows you to choose the most appropriate balance between treble and bass frequencies, according to the type of music you are listening to.

1 Press EQ button until the required option is selected.

To obtain a...	Select...
Normal balance (linear)	PASS
Balance suitable for pop music	POP
Balance suitable for rock music	ROCK
Balance suitable for classic music	CLASSIC
Balance suitable for jazz	JAZZ
Balance suitable for super bass	S.BASS

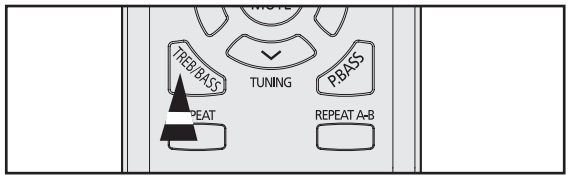


Treble Level Function

Treble Control function stresses high tones providing thudding soundeffects.

1 PressTREB/BASS button until TREB 00 is displayed. Press ^ or v button to select from TREB -04 to TREB 04.

2 You can select the level of high tones you desire.

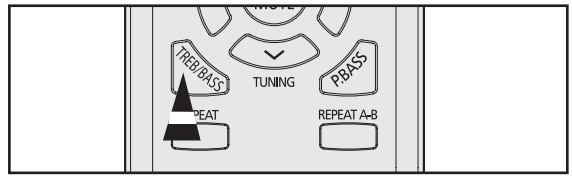


Bass Level Function

BASS function stresses low tones providing thudding sound effects.

1 Press TREB/BASS button until BASS 00 is displayed. Press ^ or v button to select from BASS -04 to BASS 04.

2 You can select the level of low tones you desire.

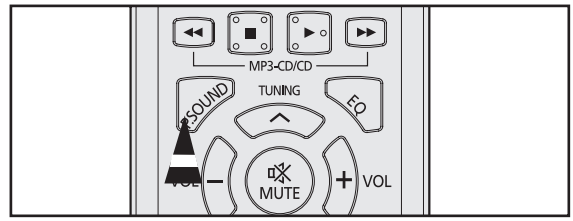


Power Sound Function

Your compact system is equipped with the function of PowerSound.
The function of Power Sound amplifies bass and improves highkey or bass twice as much for you to appreciate powerful realsound.

1 Press the **P.SOUND** button.
Result: "**P.SOUND**" is displayed.

2 To cancel this function, press **P.SOUND** again, "**OFF**" is displayed for a few seconds.

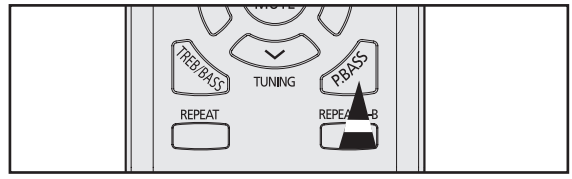


Power Bass Function

Your micro-compact system has a bass amplification function called SBS (Super Bass Sound). This function makes the sound more powerful and real.

1 Press the **P.BASS** button.
Result: "**P. BASS**" is displayed.

2 To cancel this function, press **P.BASS** again, "**OFF**" is displayed for a few seconds.



Setting the System to Switch off Automatically

While listening to music, you can set the system to switch off automatically.
Example: You wish to go to sleep to music.

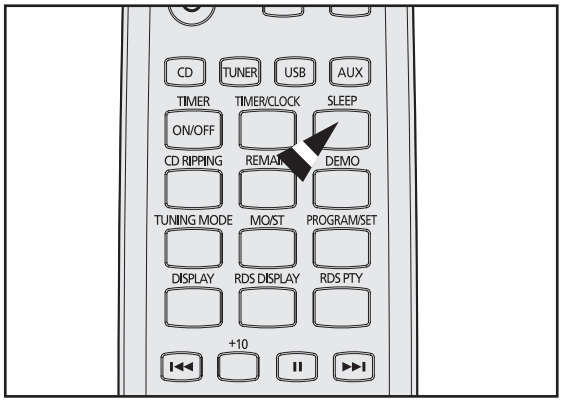
1 Press **SLEEP**.
Result: playback starts and the following indications are displayed:
90 MIN

2 Press **SLEEP** once or more times to indicate how long the system should continue playing before it switches off:

90 MIN → 60 MIN → 45 MIN
SLEEPOFF ← 15 MIN ← 30 MIN

➢ At any time, you can:
- ♦ Check the remaining time by pressing **SLEEP**
- ♦ Change the remaining time by repeating Steps **1** and **2**

3 To cancel SLEEP function, press **SLEEP** once or more times until **SLEEPOFF** is display.

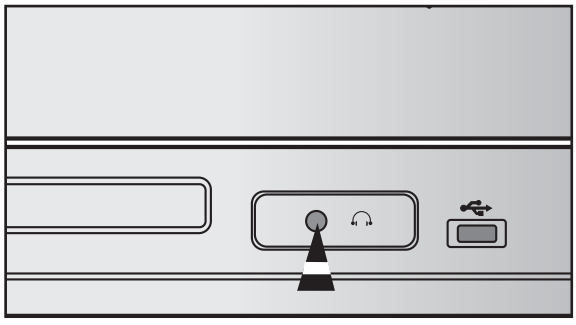


Connecting Headphones

You can connect a set of headphones to your micro-compact system so that you can listen to music or radio programmers without disturbing other people in the room. The headphones must have a 3.5ø jack or an appropriate adapter.

Connect the headphones to the **PHONES** jack on the main unit.
Result: The loudspeakers are no longer used to output the sound.

☛ Prolonged use of headphones at a high volume may damage your hearing.



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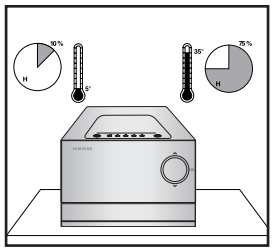
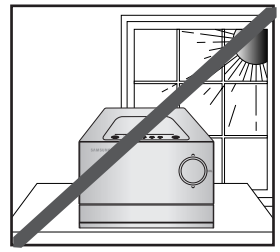
Safety Precautions

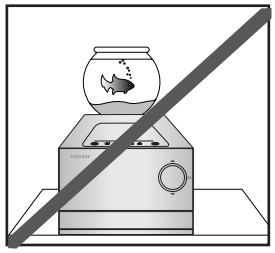
The following diagrams illustrate the precautions to be taken when using or moving your micro-compact system.



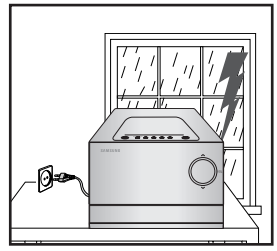
Ambient operating conditions:
Ambient temperature 5°C-35°C
Humidity 10-75%



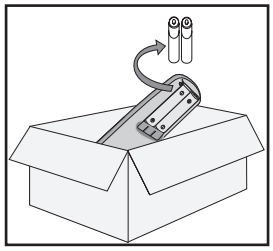
Do not expose the unit to direct sun radiation or other heat sources. This could lead to overheating and malfunction of the unit.



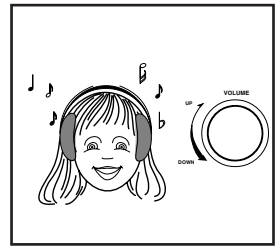
Do not place potted plants or vases on top of the unit. Moisture entering the unit could lead to dangerous electric shock and can cause equipment damage. In such events immediately disconnect the main plug from the socket.



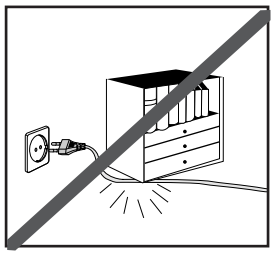
During thunderstorms, disconnect the main plug from the socket. Main voltage peaks due to lightning could damage the unit.



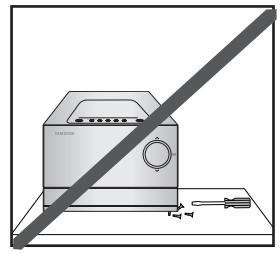
Remove the batteries from the remote control, if not used for any extended period.
Leaking batteries can cause serious damage to the remote control.



When using headphones, take care not to listen at excessive volumes. Extended use of headphones at high volumes will lead to hearing damage.



Do not place heavy items on the main lead. Main cable damage can lead to damage of the equipment (fire hazard) and can cause electric shock.



Do not remove any equipment panels. The inside of the unit contains live components, which cause electric shock.

Cleaning Your Micro-Compact System

To obtain the best possible results from your micro-compact system, you must clean the following elements regularly:

- ♦ The outer casing
- ♦ The compact disc player
- ♦ The cassette players (heads, rollers and drive capstans)

☛ Always unplug the system from the wall outlet:
- ♦ Before cleaning it
- ♦ If you are not going to be using it for a long time

Outer Casing

Clean the outer casing regularly using a soft cloth and a light detergent. Do not use abrasive powders, liquids or aerosol cleaners. Never let any liquids get into the system.

Compact Disc Player

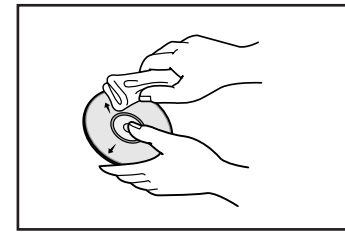
1 Before playing a compact disc, clean it with a special CD cleaning agent. Do not use the same cleaning agents as for vinyl LP records. Carefully wipe the disc from the centre outward.

2 Regularly clean the player with a special cleaning disc (available from your local dealer).

☛ ♦ If you will not be using the remote control for a long time, remove the batteries to prevent corrosion.
♦ Although your system is very hard-wearing, it should not be used in an excessively dusty environment or subjected to shocks or extreme heat (close to heating appliances or in direct sunlight, etc.).
♦ If the unit emits an unpleasant odor when in use, unplug it from the main supply and contact the after-sales service.

Precautions When Using Compact Discs

- ♦ Handle your compact discs with care. Always hold them by the edges to avoid leaving fingerprints on the shiny surface.
- ♦ When you have finished playing a compact disc, always put it back in its case.
- ♦ Do not fix paper or adhesive tape to the discs and do not write on the label.
- ♦ Clean them with a special-purpose cloth.
- ♦ Store your compact discs in a clean place, out of direct sunlight, where they will not be exposed to high temperatures.
- ♦ Always use compact discs marked .



Before Contacting the After-Sales Service

It always takes a little time to become familiar with a new appliance.
If you have any of the problems listed below, try the solutions given. They may save you the time and inconvenience of an unnecessary service call.

If the above guidelines do not allow you to solve the problem, take a note of:

- The model and serial numbers, normally printed on the rear of the system
- Your warranty details
- A clear description of the problem

Then contact your local dealer or SAMSUNG after-sales service.

	Problem	Checks/Explanation
GENERAL	The system does not work	• *The main lead is not correctly plugged into a wall socket or the wall socket is not switched on.* • *The remote control batteries need replacing or the polarity has not been respected.* • *The **POWER** button has not been pressed.*
	There is no sound	• *The volume has been completely turned down.* • *The correct function (TUNER, CD, USB, AUX) has not been selected.* • *You have connected a set of earphones.* • *The loudspeaker wires have been disconnected.* • *The **MUTE** button has been pressed.*
	The Timer does not work	• *The timer has been stopped by pressing **TIMER ON/OFF**.*
	In case it does not work, even the action is taken as above.	• *Press the **STOP*** button *for 5 seconds in power 'OFF'(standby), then it is returned the original position (RESET)*
CD / MP3 I CD	The compact disc player does not start playing	• *The CD function has not been selected.* • *The disc has been inserted face down or is either dirty or scratched.* • *The laser sensor is dirty or dusty.* • *The system has not been installed on a flat, horizontal surface.* • *Condensation has formed in the player; leave the system in a warm, airy room for at least one hour.*
RADIO	Reception is poor or no radio stations are received at all	• *The **TUNER** function has not been selected.* • *The radio frequency has not been correctly selected.* • *The aerial has been disconnected or is not facing the right way. Turn it until you find the best orientation.* • *You are in a building that blocks radio waves; you must use an outside aerial.*

Technical Specifications

ENG

SAMSUNG strives to improve its products at all times. Both the design specifications and these user instructions are thus subject to change without notice.

RADIO	
FM	
Signal/noise ratio	62 dB
Usable sensitivity	10 dB
Total harmonic distortion	0.4 %
COMPACT DISC PLAYER	
Capacity	1 disc
Frequency range	20 Hz - 20 KHz (± 1 dB)
Signal/noise ratio	90 dB (at 1 KHz) with filter
Distortion	0.1 % (at 1 KHz)
Channel separation	75 dB
Disc sizes	Diameter: 120 or 80 mm. Thickness: 1.2 mm
AMPLIFIER	
Output power	
Front Speaker (8 Ω)	35 Watts/CH X2 RMS,IEC (total harmonic distortion: 10 %)
Channel separation	60 dB
Signal/noise ratio	70 dB
GENERAL	
Power Consumption	35W
Dimensions	230 (W) x 154 (H) x 251 (D) mm
Weight	2.2 Kg

Contact SAMSUNG WORLD WIDE

If you have any questions or comments relating to Samsung products, please contact the SAMSUNG customer care centre.

ENG

Region	Country	Customer Care Center ☎	WebSite
North America	CANADA	1-800-SAMSUNG (726-7864)	www.samsung.com/ca
	MEXICO	01-800-SAMSUNG (726-7864)	www.samsung.com/mx
	U.S.A	1-800-SAMSUNG (726-7864)	www.samsung.com/us
Latin America	ARGENTINE	0800-333-3733	www.samsung.com/ar
	BRAZIL	0800-124-421, 4004-0000	www.samsung.com/br
	CHILE	800-SAMSUNG (726-7864)	www.samsung.com/cl
	NICARAGUA	00-1800-5077267	www.samsung.com/latin
	HONDURAS	800-7919267	www.samsung.com/latin
	COSTA RICA	0-800-507-7267	www.samsung.com/latin
	ECUADOR	1-800-10-7267	www.samsung.com/latin
	EL SALVADOR	800-6225	www.samsung.com/latin
	GUATEMALA	1-800-299-0013	www.samsung.com/latin
	JAMAICA	1-800-234-7267	www.samsung.com/latin
	PANAMA	800-7267	www.samsung.com/latin
	PUERTO RICO	1-800-682-3180	www.samsung.com/latin
	REP. DOMINICA	1-800-751-2676	www.samsung.com/latin
	TRINIDAD & TOBAGO	1-800-SAMSUNG (726-7864)	www.samsung.com/latin
	VENEZUELA	0-800-100-5303	www.samsung.com/latin
	COLOMBIA	01-8000112112	www.samsung.com.co
Europe	BELGIUM	02 201 2418	www.samsung.com/be (Dutch) www.samsung.com/be_fr (French)
	CZECH REPUBLIC	800-SAMSUNG (800-726786)	www.samsung.com/cz
	DENMARK	8-SAMSUNG (7267864)	www.samsung.com/dk
	FINLAND	30-6227 515	www.samsung.com/
	FRANCE	01 4863 0000	www.samsung.com/fr
	GERMANY	01805-SAMSUNG (726-7864 € 0,14/Min)	www.samsung.de
	HUNGARY	06-80-SAMSUNG (726-7864)	www.samsung.com/hu
	ITALIA	800-SAMSUNG (726-7864)	www.samsung.com/it
	LUXEMBURG	02 261 03 710	www.samsung.com/lu
	NETHERLANDS	0900-SAMSUNG (0900-7267864) (€ 0,10/Min)	www.samsung.com/nl
	NORWAY	3-SAMSUNG (7267864)	www.samsung.com/no
	POLAND	0 801 1SAMSUNG (172678), 022-607-93-33	www.samsung.com/pl
	PORTUGAL	80820-SAMSUNG (726-7864)	www.samsung.com/pt
	SLOVAKIA	0800-SAMSUNG (726-7864)	www.samsung.com/sk
	SPAIN	902-1-SAMSUNG (902 172 678)	www.samsung.com/es
	SWEDEN	0771 726 7864 (SAMSUNG)	www.samsung.com/se
	U.K	0845 SAMSUNG (7267864)	www.samsung.com/uk
	EIRE	0818 717 100	www.samsung.com/ie
	AUSTRIA	0810-SAMSUNG (7267864, € 0.07/min)	www.samsung.com/at
	SWITZERLAND	0848-SAMSUNG (7267864, CHF 0.08/min)	www.samsung.com/ch
CIS	RUSSIA	8-800-555-55-55	www.samsung.ru
	KAZAKHSTAN	8-10-800-500-55-500	www.samsung.com/kz_ru
	UZBEKISTAN	8-10-800-500-55-500	www.samsung.com/kz_ru
	KYRGYZSTAN	00-800-500-55-500	
	TADJIKISTAN	8-10-800-500-55-500	
	UKRAINE	8-800-502-0000	www.samsung.ua
	BELARUS	810-800-500-55-500	www.samsung.com/lt
	MOLDOVA	00-800-500-55-500	
	LITHUANIA	8-800-77777	
	LATVIA	8000-7267	www.samsung.com/lv
	ESTONIA	800-7267	www.samsung.com/ee
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	NEW ZEALAND	0800 SAMSUNG (0800 726 786)	www.samsung.com/nz
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	INDONESIA	0800-112-8888	www.samsung.com/id
	JAPAN	0120-327-527	www.samsung.com/jp
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	SINGAPORE	1800-SAMSUNG (726-7864)	www.samsung.com/sg
	THAILAND	1800-29-3232, 02-689-3232	www.samsung.com/th
	TAIWAN	0800-329-999	www.samsung.com/tw
	VIETNAM	1 800 588 889	www.samsung.com/vn
Middle East & Africa	TURKEY	444 77 11	www.samsung.com/tr
	SOUTH AFRICA	0860-SAMSUNG (726-7864)	www.samsung.com/za
	U.A.E	800-SAMSUNG (726-7864), 8000-4726	www.samsung.com/ae

Correct disposal of batteries in this product

(Applicable in the European Union and other European countries with separate battery return systems.)

This marking on the battery, manual or packaging indicates that the batteries in this product should not be disposed of with other household waste at the end of their working life. Where marked, the chemical symbols Hg, Cd or Pb indicate that the battery contains mercury, cadmium or lead above the reference levels in EC Directive 2006/66. If batteries are not properly disposed of, these substances can cause harm to human health or the environment.

To protect natural resources and to promote material reuse, please separate batteries from other types of waste and recycle them through your local, free battery return system.

This marking shown on the product or its literature, indicates that it should not be disposed with other household wastes at the end of its working life. To prevent possible harm to the environment or human health from uncontrolled waste disposal, please separate this from other types of wastes and recycle it responsibly to promote the sustainable reuse of material resources. Household users should contact either the retailer where they purchased this product, or their local government office, for details of where and how they can take this item for environmentally safe recycling. Business users should contact their supplier and check the terms and conditions of the purchase contract. This product should not be mixed with other commercial wastes for disposal.

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